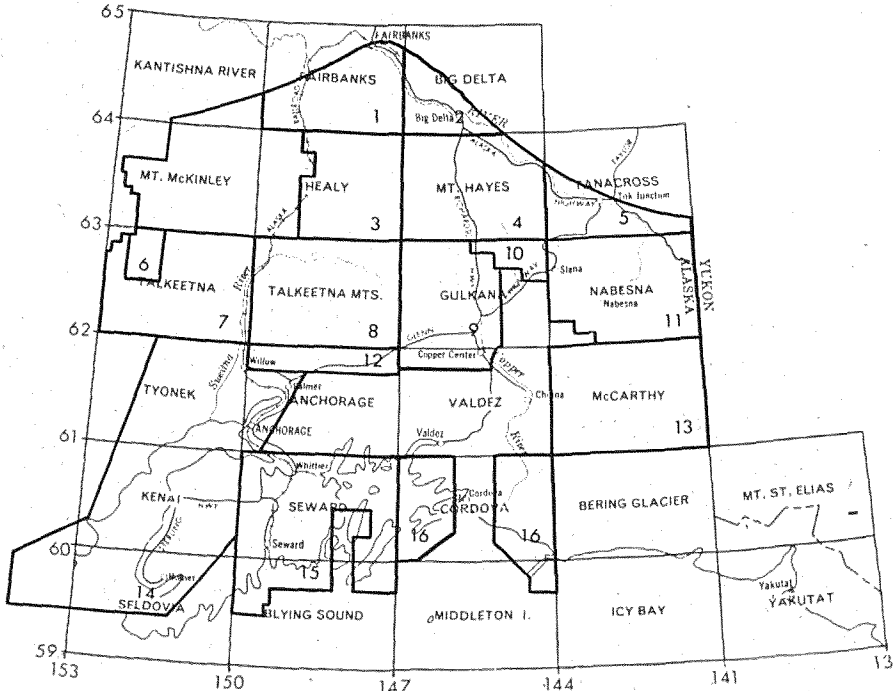
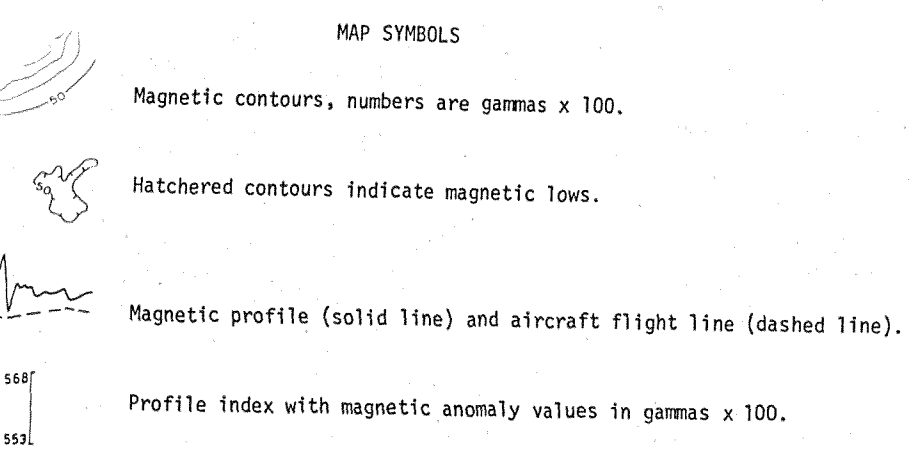
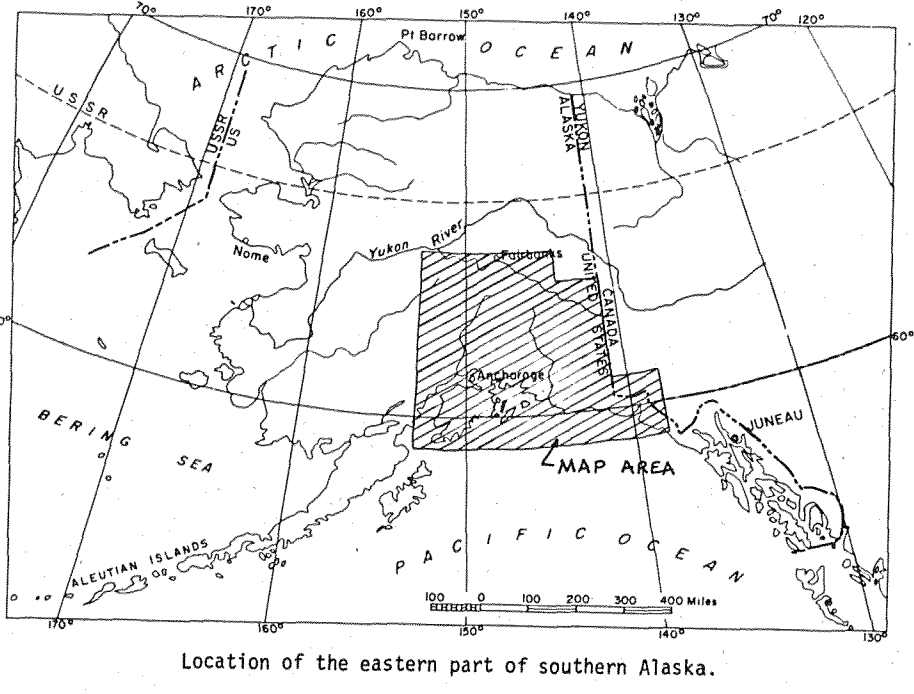


SOURCES AND EXPLANATION OF DATA

1. Alaska Division of Geological and Geophysical Surveys, 1973 (revised, 1977), Aeromagnetic map, southeastern part of Fairbanks quadrangle, Alaska: Alaska Div. Geol. and Geophys. Survey open-file report 6, scale 1:250,000, contour interval 10 gammas.
Contour interval: 100 gammas; heavy numbered contours are 500 gammas; numbers are hundreds of gammas.
Relative datum: 5000 gammas = zero datum, 1958 removed.
Flight line spacing and direction: 3/4 mile north-south, with 15 mile east-west tie lines.
Flight elevation: 1000 feet above ground level.
Type of magnetometer: Flanagan.
Year flown: 1971 and 1973.
2. Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Big Delta quadrangle, Alaska: Alaska Div. Geol. and Geophys. Survey open-file report 73, scale 1:250,000, contour interval 10 gammas.
Contour interval: 100 gammas; heavy numbered contours are 500 gammas; numbers are hundreds of gammas.
Relative datum: 5000 gammas = zero datum, 1958 removed.
Flight line spacing and direction: 3/4 mile north-south, with 15 mile east-west tie lines.
Flight elevation: 1000 feet above ground level.
Type of magnetometer: Flanagan.
Year flown: 1973.
3. Alaska Division of Geological and Geophysical Surveys, 1973 (revised, 1977), Aeromagnetic map, Neely quadrangle, Alaska: Alaska Div. Geol. and Geophys. Survey open-file report 9, scale 1:250,000, contour interval 10 gammas.
Contour interval: 100 gammas; heavy numbered contours are 500 gammas; numbers are hundreds of gammas.
Relative datum: 5000 gammas = zero datum, 1958 removed.
Flight line spacing and direction: 3/4 mile north-south, with 15 mile east-west tie lines.
Flight elevation: 1000 feet above ground level.
Type of magnetometer: Flanagan.
Year flown: 1971 and 1973.
4. Alaska Division of Geological and Geophysical Surveys, 1973 (revised, 1977), Aeromagnetic map, Mt. Hayes quadrangle, Alaska: Alaska Div. Geol. and Geophys. Survey open-file report 10, scale 1:250,000, contour interval 10 gammas.
Contour interval: 100 gammas; heavy numbered contours are 500 gammas; numbers are hundreds of gammas.
Relative datum: 5000 gammas = zero datum, 1958 removed.
Flight line spacing and direction: 3/4 mile north-south, with 15 mile east-west tie lines.
Flight elevation: 1000 feet above ground level.
Type of magnetometer: Flanagan.
Year flown: 1971 and 1973.
5. Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Tanacross quadrangle, Alaska: Alaska Div. Geol. and Geophys. Survey open-file report 11, scale 1:250,000, contour interval 10 gammas.
Contour interval: 100 gammas; heavy numbered contours are 500 gammas; numbers are hundreds of gammas.
Relative datum: 5000 gammas = zero datum, 1958 removed.
Flight line spacing and direction: 3/4 mile north-south, with 15 mile east-west tie lines.
Flight elevation: 1000 feet above ground level.
Type of magnetometer: Flanagan.
Year flown: 1971.
6. Grisson, Andrew, 1972, Aeromagnetic interpretation of the Talkeetna quadrangle, Alaska: Alaska Div. Geol. Survey Prof. Paper 318-A, p. 139-142, scale 1:250,000, contour interval 10 gammas.
Contour interval: 100 gammas; heavy numbered contours are 500 gammas; numbers are hundreds of gammas.
Relative datum: 5000 gammas = zero datum, 1958 removed (1965), updated to 1975, and flight line spacing and direction: 3/4 mile north-south, with 15 mile east-west tie lines.
Flight elevation: 1000 feet above ground level.
Type of magnetometer: Flanagan.
Year flown: 1972.
7. Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Talkeetna quadrangle, Alaska: Alaska Div. Geol. and Geophys. Survey open-file report 15, scale 1:250,000, contour interval 10 gammas.
Contour interval: 100 gammas; heavy numbered contours are 500 gammas; numbers are hundreds of gammas.
Relative datum: 5000 gammas = zero datum, 1958 removed.
Flight line spacing and direction: 3/4 mile north-south, with 15 mile east-west tie lines.
Flight elevation: 1000 feet above ground level.
Type of magnetometer: Flanagan.
Year flown: 1972.
8. Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Talkeetna quadrangle, Alaska: Alaska Div. Geol. and Geophys. Survey open-file report 20, scale 1:250,000, contour interval 10 gammas.
Contour interval: 100 gammas; heavy numbered contours are 500 gammas; numbers are hundreds of gammas.
Relative datum: 5000 gammas = zero datum, 1958 removed.
Flight line spacing and direction: 3/4 mile north-south, with 15 mile east-west tie lines.
Flight elevation: 1000 feet above ground level.
Type of magnetometer: Flanagan.
Year flown: 1972.
9. Anderson, S.E., Grantz, Arthur, Zietz, Isidore, and Barrow, D.F., 1964, Geologic interpretation of magnetic and gravity data in the Copper River Delta, Alaska: U.S. Geol. Survey Prof. Paper 318-A, p. 139-142, scale 1:250,000, contour interval 10 gammas.
Also see: Anderson, S.E., Dampney, W.J., Henderson, J.R., and Gilbert, F.P., 1965, Aeromagnetic map of the Copper River Delta, Alaska: U.S. Geol. Survey Geophys. Inv. Map GP-156, scale 1:250,000, contour interval 10 gammas.
Contour interval: 100 gammas; heavy numbered contours are 500 gammas; numbers are hundreds of gammas.
Datum: arbitrary.
Flight line spacing and direction: 1 mile north-south.
Flight elevation: 1000 feet above sea level except locally where topography required higher flight elevation.
Type of magnetometer: modified AN/MQ-3A Flanagan.
Year flown: 1954 and 1955.
10. Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, northeast corner of Seward quadrangle, Alaska: Alaska Div. Geol. and Geophys. Survey open-file report 12, scale 1:250,000, contour interval 10 gammas.
Contour interval: 100 gammas; heavy numbered contours are 500 gammas; numbers are hundreds of gammas.
Relative datum: 5000 gammas = zero datum, 1958 removed.
Flight line spacing and direction: 3/4 mile north-south, with 15 mile east-west tie lines.
Flight elevation: 1000 feet above ground level.
Type of magnetometer: Flanagan.
Year flown: 1971.
11. Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Nabesna quadrangle, Alaska: Alaska Div. Geol. and Geophys. Survey open-file report 13, scale 1:250,000, contour interval 10 gammas.
Contour interval: 100 gammas; heavy numbered contours are 500 gammas; numbers are hundreds of gammas.
Relative datum: 5000 gammas = zero datum, 1958 removed.
Flight line spacing and direction: 3/4 mile north-south, with 15 mile east-west tie lines.
Flight elevation: 1000 feet above ground level.
Type of magnetometer: Flanagan.
Year flown: 1971.
12. Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Anchorage quadrangle, Alaska: Alaska Div. Geol. and Geophys. Survey open-file report 21, scale 1:250,000, contour interval 10 gammas.
Contour interval: 100 gammas; heavy numbered contours are 500 gammas; numbers are hundreds of gammas.
Relative datum: 5000 gammas = zero datum, 1958 removed.
Flight line spacing and direction: 3/4 mile north-south, with 15 mile east-west tie lines.
Flight elevation: 1000 feet above ground level.
Type of magnetometer: Flanagan.
Year flown: 1972.
13. Case, J.E., and Macdonald, G.M., Jr., 1975, Aeromagnetic map and geologic interpretation of aeromagnetic map, McCarthy quadrangle, Alaska: U.S. Geol. Survey Misc. Field Studies Map MF 775-A, scale 1:250,000, contour interval 10 gammas.
Contour interval: 100 gammas; heavy numbered contours are 500 gammas; numbers are hundreds of gammas.
Relative datum: 5000 gammas = zero datum, 1958 removed (1965), updated to 1975.
Flight line spacing and direction: 1 mile north-south.
Flight elevation: 1000 feet above ground level.
Type of magnetometer: modified AN/MQ-3A Flanagan.
Year flown: 1975.
14. Grantz, Arthur, Zietz, Isidore, and Anderson, S.E., 1963, An aeromagnetic reconnaissance of the Cook Inlet area, Alaska: U.S. Geol. Survey Prof. Paper 318-A, p. 137-138, scale 1:500,000.
Profile amplitude: 1/4 inch = 1000 gammas; index numbers are hundreds of gammas.
Datum: arbitrary.
Flight line spacing and direction: spacing variable between 2 and 16 miles east-west.
Flight elevation: 1200 feet above sea level except locally where topography required higher flight elevation.
Type of magnetometer: modified AN/MQ-3A Flanagan.
Year flown: 1954 and 1955.
15. U.S. Geological Survey, 1977, Aeromagnetic survey, parts of Seward and Blythe Sound quadrangles, Alaska: unpublished data, scale 1:250,000, contour interval 5 gammas.
Contour interval: 100 gammas; heavy contours are 500 gammas; numbers are hundreds of gammas.
Datum: variable, 1958 removed (1965), updated to 1975.
Flight line spacing and direction: 1 mile north-south with variably spaced east-west tie lines.
Flight elevation: 1000 feet above ground level.
Type of magnetometer: G-803 proton.
Year flown: 1975.
16. U.S. Geological Survey, 1977, Aeromagnetic survey, parts of Cordova and Middleton Island quadrangles, Alaska: unpublished data, scale 1:250,000, contour interval 5 gammas.
Contour interval: 100 gammas; heavy contours are 500 gammas; numbers are hundreds of gammas.
Datum: arbitrary, 1958 removed (1965), updated to 1975.
Flight line spacing and direction: 1 mile north-south with variably spaced east-west tie lines.
Flight elevation: 1000 feet above ground level.
Type of magnetometer: G-803 proton.
Year flown: 1975.



Base map from the National Atlas of the United States of America, U.S. Geological Survey, 1970.



ACKNOWLEDGMENTS
This map was compiled under the direction of J.E. Case and Andrew Grisson, U.S. Geological Survey. The aeromagnetic data were collected by the U.S. Geological Survey and the Alaska Division of Geological and Geophysical Surveys. The map is intended to show large scale magnetic anomaly patterns and is not a detailed geologic interpretation. Anyone interested in the detailed magnetic data for a particular area is referred to the original data.

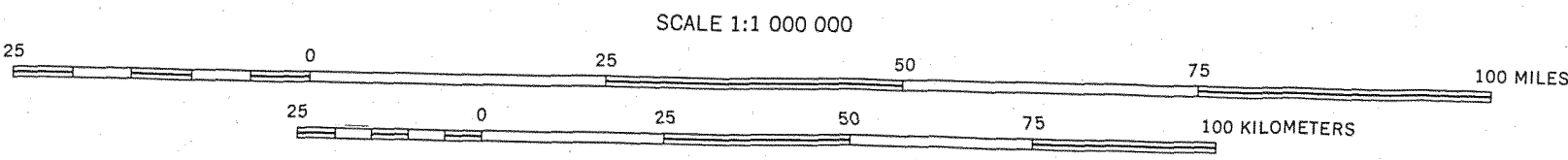
This map is a compilation of the available aeromagnetic data from the eastern part of southern Alaska; no attempt has been made to establish a common datum or to resolve boundary differences between adjacent surveys. The map is intended to show large scale magnetic anomaly patterns and is not a detailed geologic interpretation. Anyone interested in the detailed magnetic data for a particular area is referred to the original data.

PRELIMINARY AEROMAGNETIC MAP OF THE EASTERN PART OF SOUTHERN ALASKA

COMPILED BY

JOHN DECKER AND SUSAN KARL

1977



This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.